



Serial No.: 09/773,782
Attorney Docket No.: RD-24364 (2315J-3451)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	Raymond Grant Rowe
Serial No.	09/773,782
Filing Date	February 2, 2001
For	CREEP RESISTANT ZIRCONIUM ALLOY AND NUCLEAR FUEL CLADDING INCORPORATING SAID ALLOY
Examiner	Harry D. Wilkins III
Art Unit	1742

Box Non-Fee Amendment
Assistant Commissioner for Patents
Washington, D.C. 20231

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**AMENDMENT AND RESPONSE TO
SECOND OFFICE ACTION (PAPER NO. 6)**

Dear Sir:

In response to the Office Action mailed July 19, 2002, rejecting claims 1-7 of the above-identified Application, Applicant respectfully requests that the following amendments and remarks be considered.

IN THE SPECIFICATION

Please replace the second full paragraph on page 1 with the following:

Nuclear reactors utilize water as a coolant for the reactor and the produced steam as a source of energy to power steam turbines to thereby provide electrical energy. Nuclear reactors typically have their nuclear fissionable material contained in sealed cladding tubes, generally of a zirconium alloy, for isolation of the nuclear fuel from the

10/03/2002 SSESHE1 00000103 09773782

01 FC:103 270.00 OP
02 FC:102 168.00 OP



1742\$

PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/773,782	
	Filing Date	02/02/2001	
	First Named Inventor	Rowe, Raymond Grant	
	Group Art Unit	1742	
	Examiner Name	Harry D. Wilkins, III	
Total Number of Pages in This Submission	26	Attorney Docket Number	RD-24364 (3451)

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): TO 1700 MAIL ROOM OCT - 7 2002 RECEIVED
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Tracey R. Loughlin, Reg. No. 51,969 DOUGHERTY, CLEMENTS & HOFER
Signature	<i>Tracey R. Loughlin</i>
Date	09/19/2002

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 09/19/2002			
Typed or printed name	Terri K. Lester		
Signature	<i>Terri K. Lester</i>	Date	09/19/2002

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 438.00

Complete if Known

Application Number	09/773,782
Filing Date	02/02/2001
First Named Inventor	Raymond Grant Rowe
Examiner Name	Harry D. Wilkins III
Group Art Unit	1742
Attorney Docket No.	RD-24364 (2315J-3451)

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 04-1448
Deposit Account Name: Dougherty & Clements LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☒ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 740	201 370	Utility filing fee	
106 330	206 165	Design filing fee	
107 510	207 255	Plant filing fee	
108 740	208 370	Reissue filing fee	
114 160	214 80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
35	-20** = 15	X 18.00	= 270.00
Independent Claims	-3** = 2	X 84.00	= 168.00
Multiple Dependent			= 438.00

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 438.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 920	217 460	Extension for reply within third month	
118 1,440	218 720	Extension for reply within fourth month	
128 1,960	228 980	Extension for reply within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,280	241 640	Petition to revive - unintentional	
142 1,280	242 640	Utility issue fee (or reissue)	
143 460	243 230	Design issue fee	
144 620	244 310	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Name (Print/Type)	Tracey R. Loughlin	Registration No. (Attorney/Agent)	51,969	Telephone	704-366-6642
Signature	<i>Tracey R. Loughlin</i>	Date	9/19/02		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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